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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/855,798	05/16/2001	Tetsuya Ishihara	06753.0446	1536
22852 7590 06/03/2005 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW			EXAMINER	
			FIELDS, COURTNEY D	
			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20001-4413		2137		
			DATE MAILED: 06/03/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Anntination No.	Amulianutta					
	Application No.	Applicant(s)					
Office Action Summary	09/855,798	ISHIHARA ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAIL INC DATE of this commission on	Courtney D. Fields	2137					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 17 Ma	<u>arch 2005</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-6</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or							
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the o	*	• •					
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex	,	• •					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

DETAILED ACTION

- 1. Claims 1-6 have been amended.
- 2. Claims 1-6 are pending.

Response to Arguments

1. Applicant's arguments with respect to claims 1-6 have been considered but are most in view of the new ground(s) of rejection of Schneier "Applied Cryptography".

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Schneier (Applied Cryptography).

Regarding claim 1, Schneier discloses a cryptographic communication method comprising installing cryptographic algorithms containing block encryption (ciphers) and stream encryption (ciphers). The communication is carried out by combining the block encryption (enciphers) and the stream encryption (enciphers) as shown in Figure 8.17 on page 175. The stream cipher functions as the output feedback mode and the block cipher functions as the output function.

Regarding claim 2, Schneier discloses enciphering a plaintext code which is a secrecy object by block encryption, encipher by stream encryption and block encryption

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and restore the block encryption (cipher) as the original plaintext code as shown on page 176-177.

Regarding claim 3, Schneier discloses enciphering a plaintext code which is a secrecy object by block encryption, encipher by stream encryption and block encryption and obtain a cipher code as shown on page 176-177, and restoring a received cipher code by stream encryption to obtain an original plaintext code as shown on page 177.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schneier in view of Italia et al. (US Patent No. 6,792,111).

Regarding claim 4, Schneier discloses the method of claim 1, in which block encryption and stream encryption are used for cryptographic communication. However, Schneier does not teach a cipher key, a cipher table, and a restoration table. Italia et al. discloses respective data bases for a cipher key, a cipher table, and a restoration table in the chaos block encryption are controlled unitarily by providing with an appropriate initial value x (0). (See Column 2, lines 20-26 and Column 7, lines 38-56). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Schneier's block and stream ciphers with Italia et al's chaotic cryptation system in order to provide a cryptographic communication system based on chaotic

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models that possess enhanced security. (See Italia, Column 2, lines 65-67 and Column 3, lines 1-12).

Claims 5 and 6 are substantially equivalent to claim 4, therefore claims 5 and 6 are rejected for the same reasons.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Courtney D. Fields whose telephone number is 571-272-3871. The examiner can normally be reached on Mon - Thurs. 6:00 - 4:00 pm; off every Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 31, 2005

Matthew Drawllone MATTHEW SMITHERS PRIMARY EXAMINER Art Unit 2137

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